

### ABSTRACT OF THE DISCLOSURE

5 An anastomosis system and methods for its use in end-to-side anastomoses are  
provided. The subject anastomosis system includes nesting, first and second structural  
means which are each tubular in structure and have a lip at at least one end. In  
performing an end-to-side anastomosis according to the subject invention, the subject  
anastomosis system is used to stably attach the graft vessel to the side of the host vessel  
in a manner that provides for fluid communication between the lumens of the graft and  
10 host vessels. Also provided are kits that include the subject systems. The subject  
anastomosis systems and methods find use in a variety of different anastomosis  
applications, including vascular anastomoses, and particular proximal anastomoses.